FOR MYSORE STATE

Public Works (1953) Department.

Ms. SERIES.

G.O. NO. 94

Dated 8th January 1953

P.W.D(G)

[Despatch Abstract.]

Electricity - Rayalaseema Power System - Bellary District - Hospet Taluk - Hospet - Improvements to Hospet Distribution and extension of supply to addit-ional services - Sanctioned.

L

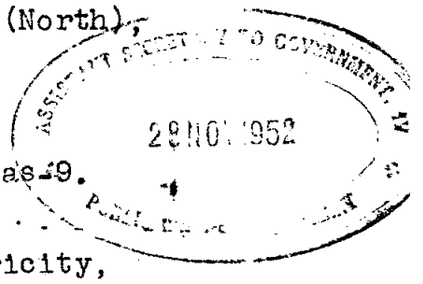
Government Electricity Department

From

The Chief Operation Engineer (North),
157, Mount Road, Madras-2.

To

The Secretary to Government,
Public Works Department, Madras-9.



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The Chief Engineer for Electricity,
157, Mount Road, Madras-2.

No.34-I/52-11, dated 22nd November 1952.

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Sir,

Sub: Electricity - Rayalaseema Power System - Bellary District - Hospet Taluk - Improvements to Hospet Distribution and extension of supply to additional services in Hospet Town - Proposal for.

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I forward herewith, for approval of Government a proposal for improvements to Hospet Distribution and Extension of supply to 9 Nos. agricultural pumpsets for 48 H.P., 25 Nos. Industrial services for 293 H.P., 250 Nos. domestic services and 50 Nos. street lights in Hospet Town, Hospet Taluk, Bellary District, Rayalaseema Power System, as per the list of consumers enclosed in the proposal.

2. The Scheme is estimated to cost Rs.1.862 lakhs. The gross annual revenue anticipated from the loads is Rs.24,310 and this works out to 13% on the capital outlay. The Scheme will therefore be remunerative.

3. The expenditure on the above Scheme is debitable to the head "81.A. Capital Outlay on Electricity Schemes - I. Hydro Electric Schemes - (Post War Reconstruction). E. Ceded District Scheme - Distribution of power in Ceded district area."

4. The Supply to the power loads included in the scheme will be subject to the following conditions:-

(i) The supply is liable to be staggered, restricted, reduced or cut off altogether, if power position or any other emergency in the system warrants such a course of action and

(ii) The Electricity Department reserves the right to cut off the supply of energy if the consumer uses the energy for purposes other than that for which the supply is specifically sanctioned.

5. I request that the Scheme may be sanctioned early.

For Chief Operation Engineer (Nor

nc/25.11.

P.T.O.

2

Office of the Chief Engineer
for Electricity,
157, Mount Road, Madras-2.

Endorsement No.34-I/52-12, dated 22nd November 1952.

Forwarded and recommended.

For Chief Engineer for Electricity.

To

The Secretary to Government,
Public Works Department, Madras.

3

HOSPET IMPROVEMENTS SCHEME-- REVISED.

Report to accompany the Estimate.

1. GENERAL

In Hospet the Municipal authorities were the licensees for distributing electric power within the municipal area and origina they had a diesel power house. In 1949 consequent on the break do of the diesel engines the municipal authorities took bulk power from the department (by which time hydro power was already ~~xxxiix~~ available at Damsite S.S.) and distrubuted the same in Hospet. As per the recent Electricity undertakings Acquisition Act, the distribution was taken over by the department from the municipal authorities on 16-3-1951.

2. SCOPE

There is good demand for power from public for industrial, agricultural and domestic purposes. The existing distribution is old and has not been properly attended to by the municipality. Originally a proposal for Improvements to Hospet distribution on a five year basis was prepared and submitted. The present propos~~e~~ is evolved on one year basis and it is ~~a~~ self remunerative.

3. POINT OF SUPPLY

This distribution is being fed from the damsite S.S. and a 11 KV H.T. line is existing from Damsite S.S. to the Municipal Power House. The point of supply will be the 11 KV line at the ~~xx~~ power house as shown in the sketch.

4. PROPOSAL IN BRIEF

This involves the following:-

(1) Erection of 1.5 miles of 11 KV H.T.line with 7/.074 copper over the existing 30' tubular poles carrying L.T.feeders with 150 feet span.

(2) Erection of 0.70 miles of 11 KV H.T.line with 7/.074 copper over 30'x50 Lbs. rail poles with 300 feet span.

(3) Erection of 1.5 miles of L.T. 3 phase 4 wire line with No.8 copper for phase & Neutral over 30'x50 Lbs. rail poles with 250 feet span.

(4) Erection of 0.75 miles of L.T. 3 phase 5 wire line with No.8 copper over 30'x50 Lbs. rail poles with 150 feet span.

(5) Erection of 1.75 miles of single phase 3 wire line with No.8 copper over 30'x50 Lbs. rail poles with 150 feet span.

(6) Conversion of 1.5 mile length of existing L.T.single phase 3 wire line with No.8 copper into 3 phase 5 wire line with No.8 copper for phase, neutral and street light main as per data VI

(7) Conversion of 0.75 mile length of existing L.T.single phase 3 wire line with No.8 copper into L.T. 3 phase 5 wire line with No.6 copper for phases and No.8 copper for neutral and st. light main as per data VII.

(8) Improvements to existing distribution system such as painting and numbering of poles, renewing service connection wire, etc as detailed in data VIII.

(9) The erection of the following distribution transformers with necessary switch gear and protective devices.

100 KVA 11KV/400 V transformer	1 No.
75 KVA 11KV/400 V transformer	1 No.
50 KVA 11KV/400 V transformer	1 No.

(10) The dismantling of existing 2 Nos. 100 KVA 11KV/400 V transformers at the power house premises and erection of the same at locations as shown in the sketch.

(11) Erection of 23 Nos. industrial, 9 Nos. agricultural and 250 Nos. domestic services and 50 Nos. street lights.

(12) Erection of special structures such as 4 pole structures, Railway crossing structures, Telegraph crossing etc. as detailed in the detailed estimate.

5. LOAD FORECAST

The loads that are existing in the area at present are

(A)	Industrial-- H.T.--	1 No.	150 H.P.	(I.S.R. factory load not added).
	L.T.	26 Nos.	208 H.P.	
(B)	Agricultural services	12	37 H.P.	
(C)	Domestic services (single phase)	541 Nos.	210 K.W.	
(D)	Street lights.	328 Nos.	16 K.W.	
(E)	Flat rate services (Bazar lamps)	46 Nos.	2 K.W.	
			473 KVA	

The loads that are expected to come up in this proposal are as follows:-

(A)	Industrial services	L.T.	23 Nos.	293 KVA
(B)	Agricultural services		9 Nos.	48 KVA
(C)	Domestic services.		250 Nos.	100 KW
(D)	Street lights		50 Nos.	2.5 KW
			Total.	443.5 KVA

From the above it would be seen that the connected load in the distribution would almost be double the existing load, with the execution of this proposal. Considering the clamour for power in Hospet town and its surroundings,(being so near to Tungabhadra Dam Site S.S., People are well aware of the advantages of electri power), the loads anticipated are quite reasonable and conservative.

6. CAPITAL COST AND REVENUE RETURN

The capital cost of this scheme comes to Rs. 1,86,200. The revenue anticipated at basic rates of Rs. 35/- per H.P. per annum for industrial and agricultural services, Rs. 45/- per service per annum for domestic services and Rs. 22/-8 per street light per annum for street lights, comes to Rs. 24,310/- This yields a percentage revenue return of 13% making the scheme highly remunerative.

7. TRANSFORMER CAPACITY AND REGULATION

The demand due to the Hospet distribution has to be met fro the Tungabhadra Dam site S.S. There are at present 2 Nos. x 1000 KVA transformers. The load position on the S.S. is expected to as follows:-

1.	T.B.Project works-Madras Side	700 KVA
2.	Hydrabad P.W.D.	750 KVA
3.	I.S.R.Factory.	150 KVA
4.	Existing load in Hospet.	193 KVA
5.	Amaravathi distribution.	15 KVA
6.	Demand due to loads now proposed.	180 KVA
7.	Demand du to Kamalapuram Labour	142 KVA
	Total.	~~1988~~ 2138 KVA

With a D.F. of 1.2, the coincident demand on the T.B.Dam S.S. will be $\frac{~~1988~~\ 2138}{1.2} = ~~1656.6~~\ 1782.3$ KVA

Hence the capacity of 2 Nos.x1000 KVA transformers at Dam site S.S. are quite adequate to meet the loads now proposed.

The capacities of the distribution transformers provided in the estimate are also quite adequate to meet the loads now proposed.

The H.T. regulation at tail end is 1.6% and hence is quite satisfactory.

With the shifting of 2 Nos. 100 KVA transformers from Power House area to locations as shown in the sketch and with the provision of 3 more additional transformers, the L.T.regulation at consumers' premises will be much improved.

8. ESSENTIALITY

As the proposal is for improving the distribution and also to effect supply to additional industrial and agricultural loads in Hospet town, which is one of the growing towns in the Ceded Districts area, the conditions of essentiality are satisfied.

9. MATERIALS

Certain materials like transformers switch gear etc are available. Other materials have got to be arranged for. A list of main line materials is enclosed.

10. CONDITIONS OF SUPPLY: Supply to the new loads included in the proposal is recommended for sanction subject to the condition that supply is liable to be staggered, restricted, reduced or cut off altogether if power position or any other emergency in the system warrants such a course of action.

11. CONCLUSION: Since this proposal is to improve the acquired undertaking and also to build up loads in Rayalaseema area, urgent sanction is recommended.

KMC/BA.29.8

9

GOVERNMENT ELECTRICITY DEPARTMENT.

~~Extension of supply to~~ ~~Village~~

HOSPET IMPROVEMENTS SCHEME-- REVISED.

~~in~~ ~~from~~ ~~Sub Station~~

ABSTRACT OF ESTIMATE.

S. No	Description of work	H T. System account No.	H T. System Amount Rs	L. T. System Account No.	L. T. System Amount Rs	Total Rs
1	Grounds and Buildings		500		500	1,000
2	Overhead Feeder Erected		14,220		67,975	82,195
3	Special Structures Erected		10,050		-	10,050
4	Switch gear Erected		4,100		1,170	5,270
5	Transformers Erected		-		15,000	15,000
6	Street light fixtures Erected		-		2,000	2,000
7	Service connections Erected camps & etc.		-		40,860	40,860
	Sub Total ..		28,870		1,27,505	1,56,375
	Contingencies 5%		1,444		6,375	7,819
	Total for works		30,314		1,33,880	1,64,194
	Establishment 8·5%	010	2,577	010	11,380	13,957
	General charges 5·5%	020	1,667	020	7,363	9,030
	Tools & Plant 1·0%	030	303	030	1,339	1,642
	Grand Total		34,861		1,53,962	1,88,823
				Less credits.		2,650
						1,86,173
				or Say Rs.		1,86,200

RUPEES ONE LAKH EIGHTY SIX THOUSAND AND TWO HUNDREDS ONLY.

~~SD/GOVINDA MENON.V.K.~~
~~Superintending Engineer~~

KMC/BA.

~~Rayalaseema Power System,~~
~~Bellary.~~

HOSPET IMPROVEMENTS SCHEMES-- REVISED.

DETAILED ESTIMATE.

No.	Qty.	Particulars.	Rate.	Per.	Amount.	Total
		H.T.SYSTEM				
I.		Grounds & buildings.				
		Tree clearence & compensanction		LS	500	500
II.		H.T.overhead feeders erected.				
i.	1.5 miles.	11KV H.T.line with 7/.074 copper over the existing 30'x tubular poles carrying L.T.feeders with 150' span (Data I)	6400	mile	9600	
ii.	0.7 miles.	11KV H.T.line with 7/.074 copper over 30'x50Lbs.rail poles with 300' span (Data II)	6600	mile	4620	14,220
III.		Special structures erected.				
i.	5 Nos.	Transformer DP structures.	550	each	2750	
ii.	3 Nos.	4-pole structures.	1200	each	3600	
ii.	1 No.	Railway crossing structure.	1200	each	1200	
iv.	2 Nos.	Telegraphic crossings.		LS	1500	
v.	1.5 miles.	Guarding between HT & LT		LS	1000	10,050
IV.		Switchgear Erected.				
i.	5 Nos.	11 KV A.B.Switches.	400	each	2000	
ii.	5 Nos.	11 KV H.G.fuse sets.	150	each	750	
iii.	5 Nos.	11 KV Lightning arresters.	270	each	1350	4,100
				Sub Total.		28,870
				Contingencies 5%		1,444
				Total for works.		30,314
				Establishment and general charges 15%		4,547
				Total for H.T.System.		34,861

KMC/BA.

No.	Qty.	Particulars.	Rate.	Per.	Amount.	Tot
		L.T.SYSTEM.				
I.		Grounds and buildings.				
		Tree clearence,compensation etc.	L.S.		500	500
II.		Transformers erected.				
	1 No.	100 KVA 11KV/400 V transformer.	5300	each	5300	
	1 No.	75 KVA 11KV/400 V "	4800	each	4800	
	1 No.	50 KVA 11KV/400 V "	4100	each	4100	
		Transport and erection charges	LS		600	
		Charges for shifting the 2 Nos. 100KVA transformers from P.H. to locations shown in sketch.	LS		200	15000
III.		L.T.feeders erected.				
1.	1.5 miles.	LT 3 phase 4 wire line with No.8 copper for phases & Neutral over 30'x50Lbs.rail poles with 250' span Data III	7900	mile	11850	
2.	0.75 miles.	LT 3 phase 5 wire line with No.8 copper for phase,neutral and st.light main over 30'x50 Lbs. rail poles with 150' span(Data IV)	10600	mile	7950	
3.	1.75 miles.	LT single phase 3 wire line with No.8 copper over 30'x 50 Lbs. rail poles with 150 feet span (Data V)	7600	mile	13300	
4.	1.5 miles.	Conversion of existing LT single phase 3 wire line with No.8 copper into LT 3 phase 5 wire for phase, neutral & st.light main with No.8 copper(Data VI)	3200	mile	4800	
5.	0.75 miles.	Conversion of existing LT single phase 3 wire line with No.8 copper into LT 3 phase 5 wire with No.6 copper for phase & No.8 copper for Neutral and st.light main (Data VII)	6100	mile	4575	
6.		Improvements to distribution such as painting of poles, concreting etc.	Data VIII		25500	67975
IV.		L.T.switchgear Etected.				
1.	3 Nos.	L.T.distribution boxes.	350	each	1050	
2.	3 Nos.	L.T.lightning arresters.	40	each	120	1170
						84645

Carried over.

No.	Qty.	Particulars.	Rate.	Per.	Amount.	Total.
		Brought forward				84645
V.		Street light fixtures erected.				
	50 Nos.	Street light fixtures erected.	40	each	2000	2000
VI.		Service connections erected.				
1.	23 Nos.	LT 3 phase Industrial services.	320	each	7360	
2.	9 Nos.	LT 3 phase agricultural services.	250	each	2250	
3.	250 Nos.	LT single phase residential services.	125	each	31250	40860
		Sub Total.				127505
		Contingencies 5%				6375
		Total for works.				133880
		Establishment & general charges 15%				20082
		Total for L.T.System.				153962
		Credits.				
1.	400 Nos.	Old LT pins & shackles.	/12/	each	300	
2.	6 miles.	Old GI wire No.8	50/-	mile	300	
3.		Retrievable materials from old services which are removated.		LS	350	
4.	1.4miles.	No.8 copper.		LS	1260	
5.	80 Nos.	Single phase crossarms.	3/-	each	240	
6.	1 No.	11KV H.G.fuse set.	100/-	each	100	
7.	1 No.	11KV L.A.	200/-	each	200	
		Total credits.				2,750
		Less dismantling charges				100
		Nett credits.				2,650

Total for H.T.System	Rs.	34,861
Total for L.T.System	Rs.	1,53,962
Total for HT and LT	Rs.	1,88,823
Less credits.		2,650
Total capital cost	Rs.	1,86,173
or Say Rs.		1,86,200

RUPEES ONE LAKH EIGHTYSIX THOUSAND AND TWO HUNDREDS ONLY.

KMC/BA.

12

Data I. Cost of one mile of 11 KV HT line with 7/.074 copper over the existing tubular poles carrying L.T.feeders with 150' span.

No.	Qty.	Particulars.	Rate.	Per	Amount.
1.	38 Nos.	4'-6" 'V' cross arms with back clamps etc.	16/-	each	608/-
2.	108 Nos.	11 KV pin insulators.	9/-	each	972/-
3.	18 Nos.	11 KV strain discs.	27/-	each	486/-
4.	3.06 miles.	7/.074 copper.	1070/-	mile	3,274/-
5.	1 Set.	Bracing set.	100/-	each	100/-
6.	36 Nos.	Top insulator fittings.	3/-	each	108/-
7.	6 Nos.	Stay sets.	24/-	each	144/-
8.		Earthing of poles.		LS	150/-
9.		Labour and transport.		LS	450/-
10.		Sundries.		LS	108/-
		Total.			6,400/-

Data II. Cost of one mile of 11 KV HT line with 7/.074 copper over 30'x50 Lbs. rail poles with 300 feet span.

No.	Qty.	Particulars.	Rate.	Per	Amount.
1.	19 Nos.	30'x50Lbs. rail poles.	71/-	each	1,349/-
2.	18 Nos.	3'-6" 'V' cross arms.	15/-	each	250/-
3.	54 Nos.	11 KV pin insulators.	9/-	each	486/-
4.	6 Nos.	11 KV strain discs.	27/-	each	162/-
5.	3.06 Miles.	7/.074 copper.	1070/-	mile	3,274/-
6.		DP structural materials such as clamps etc.		L.S.	100/-
7.	5 sets.	Stay sets.	24/-	each	120/-
8.		Concreting and earthing.		L.S.	250/-
9.		Labour and transport.		L.S.	500/-
10.		Sundries.		L.S.	109/-
		Total..			6,600/-

Data III. Cost of one mile of L.T.3 phase 4 wire line with No.8 copper for phase and neutral over 30'x50 Lbs. rail poles with 250' span.

1.	22 Nos.	30'x50Lbs. rail poles.	71/-	each	1,562/-
2.	26 Nos.	L.T.3 phase cross arms.	7/-	each	182/-
3.	78 Nos.	L.T. pins & shackles.	2/-	each	156/-
4.	26 Nos.	C.I.knobs.	0-8-0	each	13/-
5.	10 Nos.	Stay sets.	24/-	each	240/-
6.	4.08 miles.	No.8 copper.	1227/-	mile	5,006/-
7.		Concreting and earthing.		L.S.	200/-
8.		Labour and transport.		L.S.	450/-
9.		Sundries.		L.S.	91/-
		Total.			7,900/-

KMC/BA.

Data IV. Cost of one mile of LT 3 phase 5 wire line with No.8 copper for phase,Neutral and street light main with 150' span over 30'x50 Lbs. rail poles.

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No.	Qty.	Particulars.	Rate.	Per.	Amount.
1.	36 Nos.	30'x50Lbs. rail poles.	71/-	each	2,556/-
2.	40 Nos.	L.T.3 phase cross arms.	7/-	each	280/-
3.	160 Nos.	L.T. pins and shackles.	2/-	each	320/-
4.	40 Nos.	C.I.knobs.	0-8-0	each	20/-
5.	10 Nos.	Stay sets.	24/-	each	240/-
6.	5.1 Miles.	No.8 copper.	1227/-	mile	6,258/-
7.		Concreting, and earthing.		L.S.	250/-
8.		Labour and transport.		L.S.	550/-
9.		Sundries.		L.S.	126/-
			Total.		10,600/-

Data V. Cost of one mile of single phase 3 wire line with No.8 copper over 30'x50 Lbs. rail poles with 150' span.

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1.	36 Nos.	Rail poles 30'x50Lbs.	71/-	each	2,556/-
2.	40 Nos.	L.T.1 phase cross arms.	4/-	each	160/-
3.	80 Nos.	L.T. pins and shackles.	2/-	each	160/-
4.	40 Nos.	C.I.knobs.	0-8-0	each	20/-
5.	3.06 Miles.	No.8 Copper.	1227/-	mile	3,745/-
6.	10 Nos.	Stay sets.	24/-	each	240/-
7.		Concreting and earthing.		L.S.	250/-
8.		Labour and transport.		L.S.	400/-
9.		Sundries.		L.S.	60/-
			Total.		7,600/-

Data VI. Conversion of one mile of LT single phase 3 wire line with No.8 copper into L.T.3 phase 5 wire line with No.8 copper fo phase,Neutral, and street light main with 150 feet span.

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1.	40 Nos.	L.T.3 phase cross arms.	7/-	each	280/-
2.	80 Nos.	L.T. pins and shackles.	2/-	each	160/-
3.	2.04Miles.	No.8 copper.	1227/-	mile	2,503/-
4.		Labour.		L.S.	200/-
5.		Sundries.		L.S.	57/-
			Total.		3,200/-

Data VII. Conversion of one mile of existing LT single phase 3 wire line with No.8 copper into LT 3 phase 5 wire line with No.6 copper for phase and No.8 copper for neutral and st. light main.

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1.	40 Nos.	L.T.3 phase cross arms.	7/-	each	280/-
2.	80 Nos.	L.T.pins and shackles.	2/-	each	160/-
3.	3.06Miles.	No.6 copper.	1767/-	mile	5,407/-
4.		Labour		L.S.	200/-
5.		Sundries.		L.S.	53/-
			Total.		6,100/-

KMC/BA.

Data VIII. Improvements to distribution such as painting, numbering concreting of poles etc.

No.	Particulars.		Amount.
1.	Concreting, reinforcing etc of 300 Nos. R.S.joists.	Data VIII(a)	5,000
2.	Painting and numbering of 500 Nos. poles.	Data VIII(b)	4,500/-
3.	Renewing the S.C. wires etc for 250 services.	Data VIII(c)	8,400/-
4.	Renewal of street light wires etc.	Data VIII(d)	3,000/-
5.	Conversion of insulated neutral wire system to Multiple earthed wire system.	Data VIII(e)	1,600/-
6.	Erection of fresh spans of L.T.feeders and underground cables to strengthen the existing L.T.ring mains consequent on the shifting of the transformers from the power house to the new locations.	Data VIII(f)	3,000/-
		Total.	25,500/-

Data VIII(a). For concreting, reinforceing and collaring of R.S. joists in the distribution, Hospet.

No.	Qty.	Particulars.	Rate.	Per.	Amount.
1.	50 Nos.	Making 2'x4'x5' pit for concreting.	3/-	each	150/-
2.	12.5 Units of concrete.	Full concreting of poles 2'x2'x6' nearly ¼ unit each for 50 poles.	125/-	unit	1,562/-
3.	400' or 1.8 tons.	Reinforcing 100 poles with 4"x2" channels at G.L with 2" pieces for each	400/-	tone	720/-
4.	12 Units.	Collaring of poles 1'x1'x 3½" nearly 1/25 unit each for 300 poles.	170/-	unit	2,040/-
5.	1½ Cwt.	Bolts & nuts, washers etc.	70/-	Cwt.	105/-
6.		Zinc sheet etc-sundries.		L.S.	73/-
7.	100 poles.	Labour for reinforcement drilling 4 poles, digging the earth and bolting up.	3-8-0	each	350/-
			Total.		5,000

Data VIII(b). Detailed estimate for painting and numbering of 500 Nos. poles in the distribution Hospet.

1.	50 Gal.	Red oxide paint at 10 poles per gallon.	8/-	Gal.	400/-
2.	20 Gal.	Black paint to paint bottom 5' from G.L.& cross arms, bracings etc.	6/-	Gal.	120/-
3.	70 Gal.	Aluminium paint.	35/-	Gal.	2,450/-
4.		Linseed oil and Kerosene etc.		L.S.	100/-
5.		Brushes, Ladders etc.		L.S.	80/-
6.		Labour.		L.S.	1,300/-
7.		Numbering of poles.		L.S.	50/-
			Total.		4,500/-

KMC/BA.

Data VIII(c). for renewing the S.C. wires etc for 250 Nos. old services in Hospet distribution.

No.	Qty.	Particulars.	Rate.	Per.	Amount.
1.	22500' or 75 coils.	W.P.cable 3/20 twin core at 90' per HSC on average for 250 H.S.Cs.	75/-	Coil	5,625
2.	750 Lbs.	G.I.wire 7/20 at 3 Lbs. per H.S.C.	1/-	Lb.	750/
3.	250	Link clips 250 boxes.	0-8-0	box.	125
4.	200	¾" wooden bushes.	0-2-0	each	25
5.		Labour,		L.S.	750
6.	250	Aerial boards with clamps and aerial fuses etc.	2-8-0	each	625
7.		Section fuses etc.		LS	50
8.	1 coil.	Jumpers 19/20 or 19/16	200/-	coil	200
9.	2 coils	Jumpers 7/20	125/-	coil	250/
		Total.			8,400/

Data VIII(d) for renewal street light wire in Hospet distributio

1.	32 coils.	Renewal of wires 3/20 VIR 30' for each fixture-320 Nos.	29/-	coil	928
2.	5 Nos.	Renewal of complete fittings.	40/-	each	200
3.	25	Renewal of reflectors.	5/-	each	125
4.	10	Renewal of holders.	2/-	each	20
5.	325	Aerial fuses 15 amps.	2/-	each	650
6.	300	Aerial boards with clamps etc.	1/-	each	300
7.	50 pairs.	Street light clamps.	0-12-0	pair	38
8.	7 Nos.	15 amps D.P.switches for street light control.	10/-	each	70
9.	7 Nos.	Wooden boxes for the control boxes.		L.S.	60
10.	2 coils	7/20 V.I.R. cables.	50/-	coil	100
11.		Bends, bushes, fuse units etc.		L.S	59
12.		Labour.		L.S.	450
		Total.			3,000

Data VIII(e). Conversion of insulated neutral wire system into multiple earthed wire system. --

1.	400	C.I.knobs, for fixing neutral wire.	0-8-0	each	200
2.	200 earths.	Earthing of poles at the rate of 1 in 4	5/-	each	1,000
3.		Transport and Labour for dismantling earthwire and then fixing C.I.knobs and also for fixing C.I.knobs including refixing S.C neutral leeds to the multipled earthed neutral wire from G.I. earth wire(dismantled)		LS	200
4.		Sundries like binding wire, bolts and nuts.		LS	200
		Total.			1,600

KMC/BA.

GOVERNMENT ELECTRICITY DEPARTMENT.

~~Extension of supply to~~ ~~Village~~ ~~in~~ ~~from~~ ~~S.S.~~

LOAD AND REVENUE FORE CAST

HOSPET IMPROVEMENTS SCHEMES- REVISED.

S. No.	Name of village.	Industrial						Agricultural			Domestic			Street Lights			Remarks
		H T.			L. T.												
		No.	H.P.	Revenue	No.	H. P.	Revenue at Rs. H.P. per annum	No.	H. P.	Revenue at Rs. H.P. per annum	No.	K. W.	Revenue at Rs service per annum	No.	K. W.	Revenue at Rs. per light per annum	Total revenue
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Hospet.	-	-	-	23	293	10255	9	48	1680	250	100	11250	50	2.5	1125	24,310
	Total.	-	-	-	23	293	10255	9	48	1680	250	100	11250	50	2.5	1125	24,310

[P. T. O

28

CONNECTED LOAD DETAILS.

Industrial - 293 H. P. or K. V. A.

Agricultural = 48 " " "

Domestic = 100 K W or K. V A.

Street lights = 2.5 " "

443.5 H. P. K. V. A.

With a D.F. of 2.5 the demand on Damsite S.S. $\frac{443.5}{2.5}$ 177.4

or Say 180 KVA

KMC/BA.

Capital Cost - Rs 1,86,200

Anticipated revenue = Rs 24,310

Revenue return $= \frac{24310 \times 100}{186200}\%$ 13.05%

or Say ~~12~~ 13%

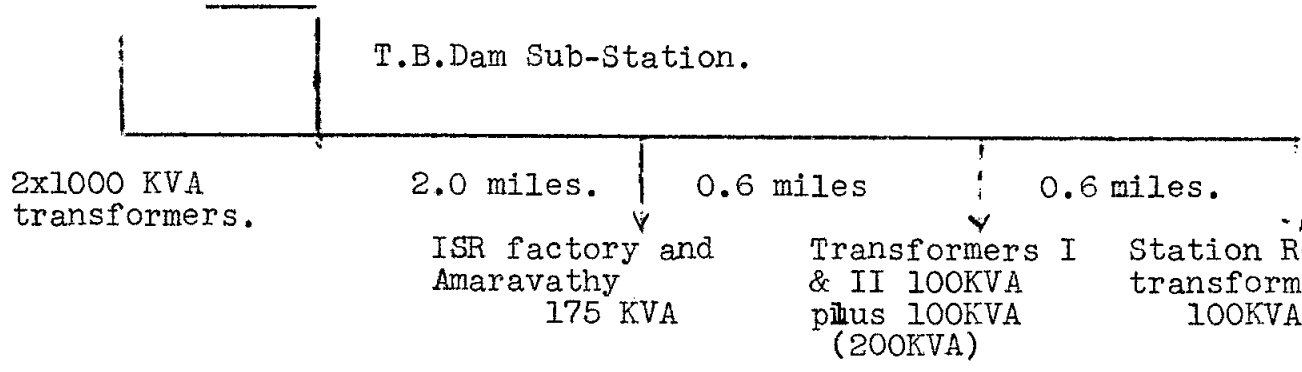
Hence highly remunerative.

~~Supdtg Engineer.~~

2431
1862

HOSPET IMPROVEMENT SCHEME- REVISED.

H.T.Regulation chart (Not to scale)
(line in miles)



Moment in KVA miles.

175 x 2	350
200 x 2.6	520
100 x 3.2	320
	1190 KVA miles.

HT regulation at tail end (i.e. station Road transformer) with 7/.074 copper.

$$1190 \times \frac{.136}{100} \quad 1.6\%$$

Hence the H.T. regulation at the tail end (Station Road transformer) is satisfactory.

KMC/BA

A LIST OF PROPOSED INDUSTRIAL CONSUMERS AT HOSPET.

No.	Name	Purpose.	HP required.	
1.	Abdul Rasheed saheb.	Flour mill	10	HP
2.	Narayana Patel.	Saw mill	20	HP
3.	P.Lakshmi Devamma.	Flour mill	10	HP
4.	Dr.R.Nagana Gowd.	Flour mill	10	HP
5.	T.Hulugappa.	Flour mill	7.5	HP
6.	K.Sonelal.	Plate cutting mechine.	5	HP
7.	K.Rangappa.	Flour mill	10	HP
8.	B.H.Shanker singh.	Welding set.	20	HP
9.	P.Hameed saheb.	Work shop.	3	HP
10.	Dr.A.K.Prasad.	Flour mill.	10	HP
11.	Bombay garage.	Work shop.	5	HP
12.	K.M.Kotrayya.	Flour mill.	10	HP
13.	N.M.Lamayya.	Flour mill.	7.5	HP
14.	Moola Raghu Ramulu.	Flour mill.	10	HP
15.	Jeevan saheb.	Flour mill.	10	HP
16.	M/S. Varadachari & Co.	Tannery.	5	HP
17.	Kare Gowda.	Flour mill.	10	HP
18.	G.Venkanna.	Flour mill.	10	HP
19.	Bhupal Pompanna.	Flour mill.	15	HP
20.	K.Sheik Mohamed.	Flour mill.	15	HP
21.	V.S.Syed.	Flour mill.	12.5	HP
22.	Pendukur Venkappa Setty	Flour mill.	25.0	HP
23.	Mehtass weaving mills.	Weaving milles.	35	HP
24.	Chitra mandir Talkies.	Cinema.	10	HP addition load
25.	Rudraya's flour mill.	Flour mill.	7.5	HP do-
		Total.	293	HP

B LIST OF ~~PROPOSED~~ AGRICULTURAL CONSUMERS.

No.	Name.	HP required.	Remarks.
1.	P.Balasubba Setty.	5 HP	
2.	P.Virupaksappa Setty.	5 HP	
3.	Alur Syama Rao.	3 HP	
4.	Alur Syama Rao.	5 HP	
5.	Y.Ramanna.	5 HP	
6.	Krishna Bhat.	5 HP	
7.	Galeppa.	5 HP	
8.	Gooty Chandrappa.	5 HP	
9.	H.R.Gaviappa.	10 HP	
	Total.	48 HP	

C Domestic Services 250

KMC/BA.

D Street Lights 50

55

LIST OF MAIN LINE MATERIALS.

1.	7/.074 Copper.	6.75 miles.
2.	No.6 copper	2.3 miles.
3.	No.8 copper	18.4 miles.
4.	11 KV pin insulators.	200 Nos.
5.	11 KV strain discs.	18 Nos.
6.	L.T.pins and shackles.	557 Nos.
7.	30'x50 Lbs. rail poles.	137 Nos.
8.	Railway crossing structure.	1 No.
9.	4 pole structures.	3 Nos.
10.	11 KV transformer D.P.structure.	5 Nos.
11.	4'-6" V cross arms.	57 Nos.
12.	3'-6" V cross arms.	13 Nos.
13.	L.T. 3 phase cross arms.	159 Nos.
14.	L.T.single phase cross arms.	70 Nos.
15.	Stay sets.	52 Nos.
16.	C.I.knobs.	229 Nos.
17.	11 KV A.B.switches.	5 Nos.
18.	11 KV H.G.fuse set.	5 Nos.
19.	11 KV Lightning arresters.	5 Nos.
20.	L.T.distribution boxes.	3 Nos.
21.	L.T.Lightning arresters.	3 Nos.
22.	100 KVA 11KV/400 V transformers.	1 No.
23.	75 KVA 11KV/400 V transformer.	1 No.
24.	50 KVA 11KV/400 V transformer.	1 No.
25.	Street light fixtures.	55 Nos.
26.	Meters.	
	50 amps. poly phase energy meter.	1 No.
	25 amps. poly phase energy meter.	3 Nos.
	20 amps. poly phase energy meters.	15 Nos.
	Single phase energy meters 10 amps.	4 Nos.
	Single phase energy meters 2.5 amps to 5 amps.	250 Nos.
27.	I.C.Cut outs.	
	60 amps.	3 Nos.
	30 amps.	54 Nos.
	15 amps.	262 Nos.
8.	Porcelein Fuse units.	
	60 amps.	3 Nos.
	30 amps.	54 Nos.
	15 amps.	312 Nos.

I request that the scheme as covered by the above report estimate and the data sheets etc.may kindly be got sanctioned early.

Govinda Menon V.K 14/8/65

SD/ GOVINDA MENON.V.K.
SUPERINTENDING ENGINEER.

KMC/BA.

3)

P.W.D.(E-3)

Electricity - Rayalaseema Power System -Bellary Dt.. Hospet Taluk,- Improvements to Hospet Distribution and extension of supply to additional services ~~in Hospet Town~~ - Sanctioned.

Read: From the C.O.E.(N) No. 34 I/52-11 dated 22-11-
From the C.E.(E) Endt. No.34-I/52-12 d/22-11-

G.O.MS.NO. 94 d. 8-1-53

The Govt. approve the proposal for improvements to the ~~Hospet~~ distribution system in Hospet and extensi of supply of electricity for agricultural, industri domestic and street lighting purposes in Hospet Town, Bellary Dt., Rayalaseema Power System, to the parties and for the loads shown in the annexure to th order and sanction an expenditure of Rs.1.862 lakhs (Rupees one lakh eighty six thousand two hundred) for the purpose.

2. The expenditure is debitable to "81.A. Capital Outlay on Elecy.Schemes (P.W.R.)-E.Ceded Districts Scheme -Distribution of power in the Ceded Districts area".

3. The supply sanctioned in para 1 above will be subject to the following conditions:-

(i) Supply is liable to be staggered, restricted, reduced or cut off altogether, as the case may be, if the power position or any other emergency in the system warrants such a course of action.

(ii) ~~The Govt.Elecy.Dept. reserves the right to cut-off the supply of energy if the consumer use~~ Supply to any consumer is liable to be cut off if he uses the energy for purposes other than that for which it is specifically sanctioned.

4. The execution of the scheme should be taken up only in accordance with the orders issued in No.4741 dated 20-11-1952.

> the C.E.(E)
> the C.O.E.(N)
> The A.G.thro' Fin.
scs2

15-12-52.

7.1.53

Annexure..

28

ANNEXURE.

(Here enter p.31 c.f. as edited)

15/12/52

1 Clean copy ... 11.32.39

Abstract

ectricity - Rayalaseema Power System - Bellary District - spet Taluk - Hospet - Improvements to Hospet Distribution d extension of supply to additional services - Sanctioned.

****

Public Works Department

..).Ms.No.94 Dated 8th January 1953
Read the following:-

From the Chief Operation Engineer (North) No.34 I/52-11 dated 22-11-52.
From the Chief Engineer (Electricity) Endorsement No.34-I/52-12 dated 22-11-52.

...

Order:-

The Government approve the proposal for improvements to the ~~system~~ distribution system in Hospet and extension of supply of electricity for agricultural, industrial domestic and street lighting purposes in Hospet Town, Bellary District, Rayalaseema Power System, to the parties and for the loads shown in the annexure to this order and sanction an ~~x~~ expenditure of Rs.1.862 lakhs (Rupees one lakh eighty six thousand two hundred) for the purpose.

2. The expenditure is debitable to "81.A. Capital Outlay on Electricity Schemes (Post War Reconstruction) - E. Ceded Districts Scheme - Distribution of power in the Ceded Districts area."

3. The supply sanctioned in paragraph 1 above will be subject to the following conditions:-

(i) Supply is liable to be staggered, restricted, reduced or cut off altogether, as the case may be, if the power position or any other emergency in the system warrants such a course of action.

(ii) Supply to any consumer is liable to be cut off if he uses the energy for purposes other than that for which it is specifically sanctioned.

4. The execution of the scheme should be taken up only in accordance with the orders issued in No.4741 Public Works dated 20-11-1952.

(By Order of the Governor)

T.N.S. Raghavan,
Secretary to Government.

To the Chief Engineer (Electricity)
To the Chief Operation Engineer (North).
To the Accountant General through Finance Department.

True copy/Forwarded/By Order

g.j/9.1. Superintendent.

Annexure.

p.t.o.

ANNEXURE

A LIST OF INDUSTRIAL CONSUMERS AT HOSPET.

No.	Name	Purpose	HP required.	
1.	Abdul Rasheed saheb.	Flour mill	10	HP.
2.	MNarayana Patel.	Saw mill	20	HP
3.	P. Lakshmi Devamma.	Flour mill	10	HP
4.	Dr. R. Nagana Gowd.	Flour mill	10	HP
5.	T. Hulugappa.	Flour mill	7.5	HP.
6.	K. Sonelal.	Plate cutting machine.	5	HP
7.	K. Rangappa.	Flour mill.	10	HP
8.	B.H. Shanker singh.	Welding set.	20	HP
9.	P. Hameed saheb.	Work shop	3	HP
10.	Dr. A.K. Prasad.	Flour mill.	10	HP
11.	Bombay garage.	Work shop.	5	HP
12.	K.M.Kotrayya.	Flour mill.	10	HP
13.	N.M. Lamayya.	Flour mill	7.5	HP
14.	Moola Raghu Ramulu.	Flour mill	10	HP
15.	Jeevan saheb.	Flour mill	10	HP
16.	M/S. Varadachari & Co.	Tannery	5	HP
17.	Kare Gowda.	Flour mill	10	HP.
18	G. Venkanna.	Flour mill	10	HP
19.	Bhupal Pompanna.	Flour mill	15	HP
20.	K.Sheik Mohamed.	Flour mill	15	HP
21.	V.S. Syed.	Flour mill	12.5	HP
22.	Pendukur Venkappa Setty.	Flour mill	25.0	HP
23.	Mehtaas weaving mills.	Weaving milles.	35	HP
24.	Chitra mandir Talkies.	Cinema	10	HP } additional load.
25.	Rudraya's flour mill.	Flour mill.	7.5	HP }
		Total	293	HP

B. LIST OF AGRICULTURAL CONSUMERS.

No.	Name	HP required		Remarks.
1.	P. Balasubba Setty	5	HP	
2.	P. Virupakaappa Setty	5	HP	
3.	Alur Syama Rao	3	HP	
4.	Alur Syama Rao	5	HP	
5.	Y. Ramanna	5	HP	
6.	Krishna Bhat	5	HP	
7.	Galeppa	5	HP.	
8.	Gooty Chandrappa	5	HP	
9.	H.R. Gaviappa	10	HP.	
	Total	48	HP.	

C. Domestic Services. 250

D. Street lights. 50

/true copy/

Superintendent.

g.1/5.1.
141

GOVERNMENT ELECTRICITY DEPARTMENT.

:::::

From

8156

The Chief Operation Engineer(North)
157, Mount Road, Madras-2.

To

The Secretary to Government,
Public Works Department, Madras.

No.34 I/52-14 dated 21-1-53.

Sir,

Sub: Electricity - Rayalaseema Power System - Bellary District - Hospet Taluk - Hospet - Improvements to Hospet Distribution and extension of supply to additional services - Sanctioned.

Ref: G.O.Ms.No.94,P.W.D.,dated 8-1-53.

P 3947 (A) — pp 38-41, 44

In para 2 of the G.O., in the head of Account the words and figures "I. Hydro Electric Schemes" have been omitted between the words "81.A.Capital outlay on Electricity Schemes" and "(Postwar Reconstruction)".

I request that necessary corrections may please be issued.

N.M./23.1.

N. Ramachandran

FOR CHIEF OPERATION ENGINEER(NORTH).

PBR 27/1

P.W.D (E)

Memo no 8156E/53-2 d 14-2-53

Sub:- Elecy - Rayalaseema Power Syste
Bellary Dt - Hospet Tk - Hospet
Improvements to Hospet
Distribution and extension of supply
to additional services - G.O Rs
94 P.W d 8-1-53 - Corrigendum
Issued

Read:- G.O Rs no 94 P.W d 8-1-53

Ref:- From the Co E (N) no 34 D/52-14
d 21-1-53.

In paragraph 2 of G.O Rs no
94 P.W d 8-1-53, insert the figur
and words, "I. Hydro Electric Schem
between the words, "81. A. Capital Outl
on Elecy Schemes" and "C Postwar Reconstruct

To The C E (E)
The Co E (N)
The A Cs to Fin
2S/6

Note The draft memo above is based on the Co E (N)'s letter on p1 cf
Fin may see before issue.

Fin (PWR)

D no
8156E/53-1
6.2.53

May be perused and returned to PWD.

PERSONAL DEPUTY SECRETARY TO GOVERNMENT
1065
7-FEB-1953
PWR
FINANCE DEPARTMENT

ASSISTANT SECRETARY
13584
13FEB1953

Fin W.O. 1065 PWR/53
13/2/53

2

Pw 2(E3)

Please see the note of the Fin Deptt at the bottom of p 1 ante. The draft memo overleaf may now issue. After issue, the papers may be added to G.O.Ms no 84 Pwd 8-1-53 ref (A).

3.2.53

4/2/53

P.W.D.(E-3)

Electricity - Rayalaseema Power System - Bellary Dt. Hospet Taluk - Improvements to Hospet Distributic and extension of supply to additional services ir Hospet Town - ~~Sanction~~.

Ref: From the C.O.E.(N) No.84-I/52-11 dated 22-11-52
From the C.E.(E) No.34-I/52-12 dated 22-11-52.

The C.O.E.(N) has forwarded a proposal for improvements to Hospet Distribution and extension of supply of electricity to 9 agricultural services for a total load of 48 H.P., 25 industrial services aggregating ~~to~~ 293 H.P., 250 domestic services and 50 street lights in Hospet Town, Hospet Taluk, Bellary Dt., Rayalaseema System at an estimated cost of Rs.1.862 lakhs.

2. Under the Madras Electricity Supply Undertakings (Acquisition) Act, 1949, the Hospet distribution was taken over by the Govt. from the Municipal licensee on 16-3-1951. It has been reporte that the existing distribution is old and has not bee properly attended to by the Municipality. The present proposal therefore, provides for improvements to existing distribution system such as ~~paucity~~ painting and number of poles, renewing service connection wire, etc. in addition to extension of supply to the additional loads mentioned in para 1 above.

3. On the estimated revenue basis, the anticipated gross annual revenue from the proposal works out to Rs.24,310/- or 13% on the capital outlay. The proposal will therefore be remunerative. Supply to the loads included in the proposal will be given subject to the usual conditions mentioned in para 4 on p.1 c.f. The C.O.E.(N) and the C.E.(E) have recommended the scheme.

4. This Dept. may agree to the scheme subject to the condition that the execution of the scheme should be taken up in accordance with the orders issued in G.O.Ms.4741 P.W. dated 20-11-1952.

A draft order is accordingly submitted for approval.

5. Finance may see for acceptance of the draft order.

11.
2/12/52

DR
11.12.52

Jm

15.12.52

P.W.D wo no
10/16916/52.
15-12-52

Finance (P.WR)

The draft order below may be accepted.

24.12.52

RL
26/12/52 PWD

ADDITIONAL DEPUTY SECRETARY TO GOVT
094639
16 DEC 1952 PWR
17
FINANCE DEPT. MADRAS

Jm. wo no 94639/PWR-1/52-2

ASSISTANT SECRETARY TO GOVT
110905
29 DEC 1952

P.W.D. (E-3).

The file relates to the proposal for improvements to Hospet Distribution and extension of supply of electricity to 9 agricultural services for a total load of 48 H.P., 23 industrial services aggregating 293 H.P., 250 domestic services and 30 street lights in Hospet town, Hospet taluk, Bellary Dt., Rayalaseema Power System at an estimated cost of Rs.1.862 lakhs.

2. Under the Madras Electricity Supply Undertakings (Acquisition) Act,1949, the Hospet distribution was taken over by the Govt. from the Municipal licensee on 16-3-51. It has been reported that the existing distribution is old and has not been properly attended to by the Municipality.

The present proposal therefore, provides for improvements to existing distribution system such as painting and numbering of poles, renewing service connection wire etc., in addition to extension of supply to the additional loads mentioned in para 1 above.

3. On the estimated revenue basis, the anticipated gross annual revenue from the proposal works out to Rs.34,310/- or 15% on the capital outlay. The proposal will therefore, be remunerative. Supply to the loads included in the proposal will be given subject to the usual conditions. The C.O.E.(N) and the C.E.(E) have recommended the scheme. This Dept. and Finance Dept. have agreed to the scheme subject to the condition that the execution of the scheme should be taken up in accordance with the orders issued in G.O.Ms.No.4741 P.W. dated 30-11-52 regarding financing of schemes for extension of supply of electricity from voluntary contributions made by the prospective consumers.

4. The file may be circulated to H.(P.W.) for approval of the draft order below.

3-1-53. 6.1.53 7.1.53.

5.1.53.

M(PW) 7.1.53

SECRETARY TO GOVERNMENT
7-JAN1953